

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (currently amended): A method of constructing home-state information in a home network, comprising:

a) constructing a home-state set using a plurality of home-state information sources which expresses the home-state information sources and all the combinations of the home-state information sources;

b) constructing home-state objects which are specific instances of the home-state set; and

c) constructing home-state properties expressing properties of the home-state objects

which specify characteristic parts of home-state information sources,

wherein the constructed home-state set, home-state objects, and home-state properties comprise the constructed home-state information.

2. (previously presented): The home-state information constructing method according to claim 1, wherein the home-state set comprises common profiles of the home-state information sources.

3. (previously presented): The home-state information constructing method according to claim 2, wherein operation a) comprises, a1) constructing unique profiles of the home-state information sources.

4. (original): The home-state information constructing method according to claim 3, wherein operation a1) comprises, constructing home device profiles and constructing external home service profiles.

5. (previously presented): The home-state information constructing method according to claim 2, further comprising setting rules for information source objects which form profiles of the home-state information sources and a combination thereof, the rules being applied to a specific home-state object.

6. (original): The home-state information constructing method according to claim 5, wherein the rules are personally defined by a home user.

7. (original): The home-state information constructing method according to claim 5, wherein the rules are provided from an external home service provider.

8. (original): The home-state information constructing method according to claim 1, further comprising combining a user interface with the home-state information to show the home-state set, the home-state objects and the home-state properties to a user.

9. (original): The home-state information constructing method according to claim 8, further comprising combining an Application Programming Interface (API) with the home-state information to enable the constructed home-state information to be accessed from an external application.

10-13. (canceled).

14. (currently amended): A method of utilizing home-state information, comprising:  
collecting information from home-state information sources on a home network through  
an information collecting module in a home agent;

processing the collected information to generate home-state information including a  
home-state set expressing all combinations of the various information sources in the network;

analyzing the generated home-state information to produce an event which specifies the  
generated home-state information;

announcing the event outside the home network; and

storing the generated home-state information in a computer-readable memory.

15. (original): The home-state information utilizing method according to claim 14,  
further comprising announcing an event outside of a home by analyzing the home-state  
information.

16. (previously presented): A system for utilizing home-state information,  
comprising:

an information collecting module operable to collect information from various  
information sources in a network;

a home-state generating module operable to process the collected information to generate  
home-state information;

a home-state analyzing module operable to analyze the generated home-state information depending on home-state properties to produce analyzed information;

a home-state storing module operable to store the information generated by the home-state generating module and information analyzed by the home-state analyzing module in a computer readable-memory;

one or more applications in a computer-readable memory operable to control a predetermined home device using the generated home-state information or the analyzed information; and

an Application Programming Interface (API) operable to transmit the information generated by the home-state generating module and the information analyzed by the home-state analyzing module to the applications,

wherein the home-state storing module stores a set of information sources and the combinations of the information sources.

17. (original): The home-state information utilizing system according to claim 16, wherein the one or more applications are constructed so that transmission or reception of home-state information therebetween is performed using Meta data for the information generated by the home-state generating module and the information analyzed by the home-state analyzing module.

18. (previously presented): The home-state information constructing method according to claim 1, wherein the home-state information sources include home devices, a home agent, home users, home services, and home applications.